

ABSTRACT

An imaging module in one embodiment includes a printed circuit board, an image sensor electrically connected to the printed circuit board, a support assembly for supporting at least one optical element, and an illumination system for generating an illumination pattern onto a target. The illumination system may include illumination light sources and diffusers for diffusing light from the illumination light sources. The module may further include an aiming system having an aiming light source, an aperture for stopping light from the aiming light source, and an optical element for projecting an aiming pattern into target area. Either or both of the illumination and aiming systems may include light redirecting elements such as mirrors or prisms.